

subject which are captured from different viewpoints, wherein an optical system has a plurality of reflectors for reflecting rays from the subject a number of times and at least a lens that is closer to the three-dimensional image-capturing device than the reflector closest to the subject.

IN THE CLAIMS

Please accept the following amendments to the claims as shown below and enclosed in clean copy form with this Office Action Response:

1(Amended). A three-dimensional image-capturing apparatus comprising:
a single [an] image-capturing device having a plurality of image capturing regions; and a plurality of optical systems for forming images of a subject in the image-capturing regions, the optical systems including a plurality of reflection means for reflecting rays from said subject a number of times, and at least a lens provided to be closer to said single image-capturing device than the closest reflection means to said subject among the reflection means; wherein the reflection means and the lens are used to form, in the image-capturing regions, separate images of said subject which are captured from different viewpoints having a distance therebetween.

2(Amended). A three-dimensional image-capturing apparatus comprising:
a single [an] image-capturing device;

a plurality of imaging-side reflection means having reflectors provided to be obliquely outward for a plurality of different portions of [the] an image-capturing region of said single image-capturing device;

a plurality of subject-side reflection means having reflectors provided, for the imaging-side reflection means, outer from the imaging side reflection means so as to be oblique with respect to a subject, the subject-side reflection means reflecting rays from said subject to the corresponding imaging-side reflection means;

10 a plurality of lenses or lens units provided to be closer to said single image-capturing device than the subject-side reflection means in optical paths formed from said subject to the different portions of the image-capturing region of said single image-capturing device so that rays from said subject to the different portions of the image-capturing region of said single image-capturing device so that rays from said subject are reflected by the imaging-side reflection means, the lenses or lens units forming a plurality of images of said subject which have parallax; and

a plurality of diaphragms in which when each optical path has a lens, the diaphragms are provided to be closer to said subject than the lens and in which when each optical path has a lens unit, the diaphragms are provided to be closer to said subject than a lens of the lens unit.

7(Amended). A stereo-camera recording/reproducing system comprising:

a three-dimensional image-capturing apparatus comprising [an] single image-capturing device having a plurality of image-capturing regions and a plurality of optical systems for forming images of a subject in the image-capturing regions;

a timing generator for driving said three-dimensional image-capturing apparatus so as to output the images formed in the image-capturing regions in the form of a single video signal;

a driver;

a camera signal processor for implementing camera signal processing on the single video signal;

a signal recorder for recording, on a single recording medium, the processed video signal output from said camera signal process;

a single reproducer for reproducing the video signal recorded on the recording medium;

a video separating circuit for separating the reproduced video signal from the reproducer into signals corresponding to the image-capturing regions; and

display apparatus for displaying the signals corresponding to the image-capturing regions, which are output from said video separating circuit;

wherein the optical systems include a plurality of reflection means for reflecting rays from said subject a number of times and at least a lens provided to be closer to said image capturing device than the reflection means closest to said subject, and

wherein the reflection means and the lens are used to form, in the image-capturing regions, separate images of said subject which are captured from different viewpoints having a distance therebetween.

REMARKS

Claims 1-7 are pending in the present application as amended. Additionally, Applicant has submitted a new abstract and amended claim 1, 2 and 7. Consequently, Applicant